

Abstract

A communication system comprises first and second communication means and a first transmission path as well as at least one further transmission path between said first and said second communication means. The first communication means are provided with transmission means for each of said transmission paths, which are capable of sending at least part of a communication signal to the second communication means. The first communication means moreover comprise training means for generating a training code to be sent to the second communication means enabling reception means to match a received signal to a corresponding transmitted signal. According to the invention a training code is used with at least nearly ideal cyclic auto-correlation properties such that its cyclic auto-correlation function is at least nearly zero for all cyclic shifts. The transmission means concurrently send said training code in a mutually shifted manner, while the reception means are capable of performing a cyclic auto-correlation with respect to a received training signal.